AMENDMENTS TO THE CLAIMS

None of the claims has been amended. The claims are reproduced here for the Examiner's convenience.

1   1. (Original) A computer-implemented method for reconciling a first

2 transaction in a first list with a combination of at least two transactions in a second

3 list, each transaction having a value, the method comprising:

4   obtaining the first transaction;

5   obtaining the second list of transactions;

6   determining whether the value of the first transaction corresponds to a

7   combination of the values of a subset of transactions in the second list; and

8   responsive to the value corresponding to the combination of values,

9   indicating a match between the first transaction and the subset of

10   transactions.

1   2. (Original) The method of claim 1, wherein each transaction comprises one

2 selected from the group consisting of an investment transaction, a financial

3 transaction, and an accounting transaction.

1   3. (Original) The method of claim 1, wherein determining whether the value

2 of the first transaction corresponds to a combination of the values of a subset of

3   transactions in the second list comprises determining whether the value of the first

4   transaction corresponds to a sum of the values of a subset of transactions in the

5   second list.

1   4. (Original) The method of claim 1, wherein at least one of the steps of

2   obtaining the first transaction and obtaining the second list comprises downloading

3   transactions from a remote server.

1   5. (Original) The method of claim 1, wherein at least one of the steps of

2   obtaining the first list and obtaining the second list comprises retrieving transactions

3   from a storage device.

1   6. (Original) The method of claim 1, further comprising:

2   determining whether the value of the first transaction corresponds to a value

3   of a transaction in the second list; and

4   responsive to the value of the first transaction corresponding to the value of a

5   transaction in the second list, indicating a match between the first

6   transaction and the transaction having the corresponding value;

7   and wherein the step of determining whether the value of the first transaction

8   corresponds to a combination of the values of a subset of transactions in the second

9   list is performed responsive to the value of the first transaction not corresponding to

10   the value of a transaction in the second list.

1   7. (Original) The method of claim 1, wherein each transaction has a date, and

2   wherein obtaining the second list comprises obtaining a list of transactions having

3   dates identical to the date of the first transaction.

1   8. (Original) The method of claim 1, wherein each transaction has a date, and

2   wherein obtaining the second list comprises obtaining a list of transactions having

3   dates within a specified time period of the date of the first transaction.

1   9. (Original) The method of claim 8, further comprising, responsive to the

2   value of the first transaction not corresponding to a combination of the values of a

3   subset of transactions in the second list:

4   modifying the specified time period; and

5   repeating the steps of obtaining the second list, determining whether the

6   value of the first transaction corresponds to a combination of the values of

7   a subset of transactions in the second list, and, responsive to the value

8   corresponding to the combination of values, indicating a match between

9   the first transaction and the subset of transactions.

1   10. (Original) The method of claim 1, wherein determining whether the value

2   of the first transaction corresponds to a combination of the values of a subset of

3   transactions in the second list comprises performing a recursive submethod using a

4   first input parameter including the value of the first transaction and a second input

5   parameter including the set of transactions in the second list.

1   11. (Previously presented) The method of claim 10, wherein performing the

2   recursive submethod comprises:

3   responsive to one of the values of a transaction in the second input parameter

4   equaling the first input parameter, returning a transaction list including

5   the transaction having the equal value;

6   responsive to none of the values of transactions in the second input

7   parameter equaling the first input parameter, and the second parameter

8   containing only one transaction, returning an indicator that no match was

9   found;

10   responsive to none of the values of transactions in the second input

11   parameter equaling the first input parameter, and the second parameter

12   containing more than one transaction, performing the recursive

13   submethod using a modified first input parameter and a modified second

14   input parameter, the modified second input parameter omitting a selected

15   transaction and the modified first input parameter being obtained by

16   subtracting the value of the selected transaction from the first input

17   parameter.

1   12. (Original) The method of claim 10, wherein performing the recursive

2 submethod comprises:

3   responsive to one of the values of a transaction in the second input parameter

4   equaling the first input parameter, returning a transaction list including

5   the transaction having the equal value;

6   responsive to none of the values of transactions in the second input

7   parameter equaling the first input parameter, and the second parameter

8   containing only one transaction, returning an indicator that no match was

9   found;

10   responsive to none of the values of transactions in the second input

11   parameter equaling the first input parameter, and the second parameter

12   containing more than one transaction, performing the steps of:

13   a) selecting a transaction in the second input parameter;

14   b) subtracting the value of the selected transaction from the first

15   input parameter to obtain a modified first input parameter;

16   c) generating a modified set of transactions including all

17   transactions in the second input parameter except the selected

18   transaction;

19   d) performing the recursive submethod using a first input

20   parameter including the modified first input parameter and a

21   second input parameter including the modified set of

22   transactions;

23   e) responsive to the recursive submethod returning a transaction

24   list, adding the selected transaction to the returned list to

25   generate a modified transaction list, and returning the modified

26   transaction list;

27   f) responsive to the recursive submethod returning an indicator

28   that no match was found, performing the steps of:

29   responsive to any transactions remaining in the

30   second input parameter, repeating steps a)

31   through f); and

32   responsive to no transactions remaining in the

33   second input parameter, returning an indicator

34   that no match was found.

1   13. (Original) The method of claim 1, further comprising repeating the

2   obtaining, determining, and indicating steps for a second transaction in the first list.

1   14. (Original) A computer-implemented method for reconciling a first

2   combination of at least two transactions in a first list with a second combination of at

3   least two transactions in a second list, each transaction having a value, the method

4   comprising:

5   obtaining each transaction in the first combination;

6   combining the obtained transactions to generate a first value;

7   obtaining the second list of transactions;

8   determining whether the first value corresponds to a combination of the

9   values of a subset of transactions in the second list; and

10   responsive to the first value corresponding to the combination of values,

11   indicating a match between the first combination and the subset of

12   transactions.

1   15. (Original) A computer-implemented method for matching a first value

2 with a combination of at least two values in a list of values, the method comprising:

3   obtaining the first value;

4   obtaining the second list of values;

5   performing a submethod, using a first input parameter including the first

6   value and a second input parameter including the second list of values, to

7   determine whether the first value corresponds to a combination of values

8   from the second list; and

9   responsive to the first value corresponding to the combination of values,

10   indicating a match for the first value.

1   16. (Previously presented) The method of claim 15, wherein the submethod is

2 recursive, and wherein performing the recursive submethod comprises:

3   responsive to one of the values in the second input parameter equaling the

4   first input parameter, returning a value list including the equal value;

5   responsive to none of the values in the second input parameter equaling the

6   first input parameter, and the second parameter containing only one

7   value, returning an indicator that no match was found;

8   responsive to none of the values in the second input parameter equaling the

9   first input parameter, and the second parameter containing more than one

10   value, performing the recursive submethod using a modified first input

11   parameter and a modified second input parameter, the modified second

12   input parameter omitting a selected value and the modified first input

13   parameter being obtained by subtracting the selected value from the first

14   input parameter.

1   17. (Original) The method of claim 15, wherein the submethod is recursive,

2   and wherein performing the recursive submethod comprises:

3   responsive to one of the values in the second input parameter equaling the

4   first input parameter, returning a value list including the equal value;

5   responsive to none of the values in the second input parameter equaling the

6   first input parameter, and the second parameter containing only one

7   value, returning an indicator that no match was found;

8   responsive to none of the values in the second input parameter equaling the

9   first input parameter, and the second parameter containing more than one

10   value, performing the steps of:

11   a) selecting a value in the second input parameter;

12   b) subtracting the selected value from the first input parameter to

13   obtain a modified first input parameter;

14   c) generating a modified value list including all values in the

15   second input parameter except the selected value;

16   d) performing the recursive submethod using a first input

17   parameter including the modified first input parameter and a

18   second input parameter including the modified value list;

19   e) responsive to the recursive submethod returning a value list,

20   adding the selected value to the returned list to generate a

21   modified value list, and returning the modified value list;

22   f) responsive to the recursive submethod returning an indicator

23   that no match was found, performing the steps of:

24   responsive to any values remaining in the second

25   input parameter, repeating steps a) through f);

26   and

27   responsive to no values remaining in the second

28   input parameter, returning an indicator that no

29   match was found.

1   18. (Original) The method of claim 15, wherein each value is associated with

2   a transaction.

1   19. (Original) The method of claim 15, wherein the submethod determines

2   whether the first value corresponds to a combination of values from the second list.

1   20. (Original) A computer-implemented method for matching a first

2   combination of at least two values with a second combination of at least two values

3   in a list of values, the method comprising:

4   obtaining each value in the first combination;

5   combining the obtained values to generate a first combined value;

6   obtaining the second list of values;

7   performing a recursive submethod, using a first input parameter including

8   the first combined value and a second input parameter including the

9   second list of values, to determine whether the first combined value

10   corresponds to a second combination of values from the second list; and

11   responsive to the first combined value corresponding to the second

12   combination of values, indicating a match for each value in the first

13   combination.

1   21. (Original) A computer program product comprising a computer-usable

2   medium having computer-readable code embodied therein for reconciling a first

3   transaction in a first list with a combination of at least two transactions in a second

4   list, each transaction having a value, comprising:

5   computer-readable program code devices configured to cause a computer to

6   obtain the first transaction;

7   computer-readable program code devices configured to cause a computer to

8   obtain the second list of transactions;

9   computer-readable program code devices configured to cause a computer to

10   determine whether the value of the first transaction corresponds to a

11   combination of the values of a subset of transactions in the second list; and

12   computer-readable program code devices configured to cause a computer to,

13   responsive to the value corresponding to the combination of values,

14   indicate a match between the first transaction and the subset of

15   transactions.

1   22. (Original) The computer program product of claim 21, wherein each

2   transaction comprises one selected from the group consisting of an investment

3   transaction, a financial transaction, and an accounting transaction.

1   23. (Original) The computer program product of claim 21, wherein the

2   computer-readable program code devices configured to cause a computer to

3   determine whether the value of the first transaction corresponds to a combination of

4   the values of a subset of transactions in the second list comprise computer-readable

5   program code devices configured to cause a computer to determine whether the

6   value of the first transaction corresponds to a sum of the values of a subset of

7   transactions in the second list.

1   24. (Original) The computer program product of claim 21, wherein at least

2   one of the computer-readable program code devices configured to cause a computer

3   to obtain the first transaction and the computer-readable program code devices

4   configured to cause a computer to obtain the second list comprises computer-

5   readable program code devices configured to cause a computer to download

6   transactions from a remote server.

1   25. (Original) The computer program product of claim 21, wherein at least

2   one of the computer-readable program code devices configured to cause a computer

3   to obtain the first transaction and the computer-readable program code devices

4   configured to cause a computer to obtain the second list comprises computer-

5   readable program code devices configured to cause a computer to retrieve

6   transactions from a storage device.

1   26. (Original) The computer program product of claim 21, further

2   comprising:

3   computer-readable program code devices configured to cause a computer to

4   determine whether the value of the first transaction corresponds to a value

5   of a transaction in the second list; and

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6   computer-readable program code devices configured to cause a computer to,

7   responsive to the value of the first transaction corresponding to the value

8   of a transaction in the second list, indicate a match between the first

9   transaction and the transaction having the corresponding value;

10   and wherein the computer-readable program code devices configured to

11   cause a computer to determine whether the value of the first transaction

12   corresponds to a combination of the values of a subset of transactions in the second

13   list are configured to operate responsive to the value of the first transaction not

14   corresponding to the value of a transaction in the second list.

1   27. (Original) The computer program product of claim 21, wherein each

2   transaction has a date, and wherein the computer-readable program code devices

3   configured to cause a computer to obtain the second list comprise computer-

4   readable program code devices configured to cause a computer to obtain a list of

5   transactions having dates identical to the date of the first transaction.

1   28. (Original) The computer program product of claim 21, wherein each

2   transaction has a date, and wherein the computer-readable program code devices

3   configured to cause a computer to obtain the second list comprise computer-

4   readable program code devices configured to cause a computer to obtain a list of

5   transactions having dates within a specified time period of the date of the first

6   transaction.

1   29. (Original) The computer program product of claim 28, further comprising

2   computer-readable program code devices configured to cause a computer to,

3   responsive to the value of the first transaction not corresponding to a combination of

4   the values of a subset of transactions in the second list:

5   modify the specified time period; and

6   repeat the steps of obtaining the second list, determine whether the value of

7   the first transaction corresponds to a combination of the values of a subset

8   of transactions in the second list, and, responsive to the value

9   corresponding to the combination of values, indicate a match between the

10   first transaction and the subset of transactions.

1   30. (Original) The computer program product of claim 21, wherein the

2   computer-readable program code devices configured to cause a computer to

3   determine whether the value of the first transaction corresponds to a combination of

4   the values of a subset of transactions in the second list comprise computer-readable

5   program code devices configured to cause a computer to perform a recursive

6   submethod using a first input parameter including the value of the first transaction

7   and a second input parameter including the set of transactions in the second list.

1   31. (Previously presented) The computer program product of claim 30,

2   wherein the computer-readable program code devices configured to cause a com-

3   puter to perform the recursive submethod comprise computer-readable program

4   code devices configured to cause a computer to:

5   responsive to one of the values of a transaction in the second input parameter

6   equaling the first input parameter, return a transaction list including the

7   transaction having the equal value;

8   responsive to none of the values of transactions in the second input

9   parameter equaling the first input parameter, and the second parameter

10   containing only one transaction, return an indicator that no match was

11   found;

12   responsive to none of the values of transactions in the second input

13   parameter equaling the first input parameter, and the second parameter

14   containing more than one transaction, perform the recursive submethod

15   using a modified first input parameter and a modified second input

16   parameter, the modified second input parameter omitting a selected

17   transaction and the modified first input parameter being obtained by

18   subtracting the value of the selected transaction from the first input

19   parameter.

1   32. (Original) The computer program product of claim 30, wherein the

2   computer-readable program code devices configured to cause a computer to

3   perform the recursive submethod comprise computer-readable program code

4   devices configured to cause a computer to:

5   responsive to one of the values of a transaction in the second input parameter

6   equaling the first input parameter, return a transaction list including the

7   transaction having the equal value;

8   responsive to none of the values of transactions in the second input

9   parameter equaling the first input parameter, and the second parameter

10   containing only one transaction, return an indicator that no match was

11   found;

12   responsive to none of the values of transactions in the second input

13   parameter equaling the first input parameter, and the second parameter

14   containing more than one transaction, perform the steps of:

15   a) selecting a transaction in the second input parameter;

16   b) subtracting the value of the selected transaction from the first

17   input parameter to obtain a modified first input parameter;

18   c) generating a modified set of transactions including all

19   transactions in the second input parameter except the selected

20   transaction;

21   d) performing the recursive submethod using a first input

22   parameter including the modified first input parameter and a

23   second input parameter including the modified set of

24   transactions;

25   e) responsive to the recursive submethod returning a transaction

26   list, adding the selected transaction to the returned list to

27   generate a modified transaction list, and returning the modified

28   transaction list;

29   f) responsive to the recursive submethod returning an indicator

30   that no match was found, performing the steps of:

31   responsive to any transactions remaining in the

32   second input parameter, repeating steps a)

33   through f); and

34   responsive to no transactions remaining in the

35   second input parameter, returning an indicator

36   that no match was found.

1   33. (Original) A computer program product comprising a computer-usable

2 medium having computer-readable code embodied therein for reconciling a first

3 combination of at least two transactions in a first list with a second combination of at

4 least two transactions in a second list, each transaction having a value, the computer

5 program product comprising:

6   computer-readable program code devices configured to cause a computer to

7   obtain each transaction in the first combination;

8   computer-readable program code devices configured to cause a computer to

9   combine the obtained transactions to generate a first value;

10   computer-readable program code devices configured to cause a computer to

11   obtain the second list of transactions;

12   computer-readable program code devices configured to cause a computer to

13   determine whether the first value corresponds to a combination of the

14   values of a subset of transactions in the second list; and

15   computer-readable program code devices configured to cause a computer to,

16   responsive to the first value corresponding to the combination of values,

17   indicate a match between the first combination and the subset of

18   transactions.

1   34. (Original) A computer program product comprising a computer-usable

2   medium having computer-readable code embodied therein for matching a first

3   value with a combination of at least two values in a list of values, the computer

4   program product comprising:

5   computer-readable program code devices configured to cause a computer to

6   obtain the first value;

7   computer-readable program code devices configured to cause a computer to

8   obtain the second list of values;

9   computer-readable program code devices configured to cause a computer to

10   perform a submethod, using a first input parameter including the first

11   value and a second input parameter including the second list of values, to

12   determine whether the first value corresponds to a combination of values

13   from the second list; and

14   computer-readable program code devices configured to cause a computer to,

15   responsive to the first value corresponding to the combination of values,

16   indicate a match for the first value.

1   35. (Previously presented) The computer program product of claim 34,

2   wherein the submethod is recursive, and wherein the computer-readable program

3   code devices configured to cause a computer to perform the recursive submethod

4   comprise computer-readable program code devices configured to cause a computer

5   to:

6   responsive to one of the values in the second input parameter equaling the

7   first input parameter, return a value list including the equal value;

8   responsive to none of the values in the second input parameter equaling the

9   first input parameter, and the second parameter containing only one

10   value, return an indicator that no match was found;

11   responsive to none of the values in the second input parameter equaling the

12   first input parameter, and the second parameter containing more than one

13   value, perform the recursive submethod using a modified first input

14   parameter and a modified second input parameter, the modified second

15   input parameter omitting a selected value and the modified first input

16   parameter being obtained by subtracting the selected value from the first

17   input parameter.

1   36. (Original) The computer program product of claim 34, wherein the

2   submethod is recursive, and wherein the computer-readable program code devices

3   configured to cause a computer to perform the recursive submethod comprise

4   computer-readable program code devices configured to cause a computer to:

5   responsive to one of the values in the second input parameter equaling the

6   first input parameter, return a value list including the equal value;

7   responsive to none of the values in the second input parameter equaling the

8   first input parameter, and the second parameter containing only one

9   value, return an indicator that no match was found;

10   responsive to none of the values in the second input parameter equaling the

11   first input parameter, and the second parameter containing more than one

12   value, perform the steps of:

13   a) selecting a value in the second input parameter;

14   b) subtracting the selected value from the first input parameter to

15   obtain a modified first input parameter;

16   c) generating a modified value list including all values in the

17   second input parameter except the selected value;

18   d) performing the recursive submethod using a first input

19   parameter including the modified first input parameter and a

20   second input parameter including the modified value list;

21   e) responsive to the recursive submethod returning a value list,

22   adding the selected value to the returned list to generate a

23   modified value list, and returning the modified value list;

24   f) responsive to the recursive submethod returning an indicator

25   that no match was found, performing the steps of:

26   responsive to any values remaining in the second

27   input parameter, repeating steps a) through f);

28   and

29   responsive to no values remaining in the second

30   input parameter, returning an indicator that no

31   match was found.

1   37. (Original) The computer program product of claim 34, wherein each

2   value is associated with a transaction.

1   38. (Original) The computer program product of claim 34, wherein the

2   computer-readable program code devices configured to cause a computer to

3   perform the submethod further comprise computer-readable program code devices

4   configured to cause a computer to determine whether the first value corresponds to

5   a combination of values from the second list.

1   39. (Original) A computer program product comprising a computer-usable

2   medium having computer-readable code embodied therein for matching a first

3 combination of at least two values with a second combination of at least two values

4 in a list of values, the computer program product comprising:

5   computer-readable program code devices configured to cause a computer to

6   obtain each value in the first combination;

7   computer-readable program code devices configured to cause a computer to

8   combine the obtained values to generate a first combined value;

9   computer-readable program code devices configured to cause a computer to

10   obtain the second list of values;

11   computer-readable program code devices configured to cause a computer to

12   perform a recursive submethod, using a first input parameter including

13   the first combined value and a second input parameter including the

14   second list of values, to determine whether the first combined value

15   corresponds to a second combination of values from the second list; and

16   computer-readable program code devices configured to cause a computer to,

17   responsive to the first combined value corresponding to the second

18   combination of values, indicate a match for each value in the first

19   combination.

1 40. (Original) A system for reconciling a first transaction in a first list with a

2 combination of at least two transactions in a second list, each transaction having a

3 value, the system comprising:

4   a first input device, for obtaining the first transaction;

5   a second input device, for obtaining the second list of transactions;

6   coupled to the first and second input devices, a memory for storing the first

7   transaction and the second list;

8   coupled to the memory, a match determination module for determining

9   whether the value of the first transaction corresponds to a combination of

10   the values of a subset of transactions in the second list; and

11   coupled to the match determination module, a match indication module for,

12   responsive to the value corresponding to the combination of values,

13   indicating a match between the first transaction and the subset of

14   transactions.

1   41. (Original) The system of claim 40, wherein each transaction comprises

2 one selected from the group consisting of an investment transaction, a personal

3 financial transaction, and an accounting transaction.

1   42. (Original) The system of claim 40, wherein the match determination

2 module determines whether the value of the first transaction corresponds to a sum

3 of the values of a subset of transactions in the second list.

1   43. (Original) The system of claim 40, further comprising:

2   coupled to the memory, a transaction matching device, for determining

3   whether the value of the first transaction corresponds to a value of a

4   transaction in the second list;

5   wherein the match indication module, responsive to the value of the first

6   transaction corresponding to the value of a transaction in the second list, indicates a

7   match between the first transaction and the transaction having the corresponding

8   value;

9   and wherein the match determination module determines whether the value

10   of the first transaction corresponds to a combination of the values of a subset of

11   transactions in the second list responsive to the value of the first transaction not

12   corresponding to the value of a transaction in the second list.

1   44. (Original) The system of claim 40, wherein each transaction has a date,

2   and wherein the second input device obtains a list of transactions having dates

3   identical to the date of the first transaction.

1   45. (Original) The system of claim 40, wherein each transaction has a date,

2   and wherein the second input device obtains a list of transactions having dates

3   within a specified time period of the date of the first transaction.

1   46. (Original) The system of claim 40, wherein the match determination

2   module performs a recursive submethod using a first input parameter including the

3   value of the first transaction and a second input parameter including the set of

4   transactions in the second list.

1   47. (Previously presented) The system of claim 46, wherein the recursive

2   submethod comprises:

3   responsive to one of the values of a transaction in the second input parameter

4   equaling the first input parameter, returning a transaction list including

5   the transaction having the equal value;

6   responsive to none of the values of transactions in the second input

7   parameter equaling the first input parameter, and the second parameter

8   containing only one transaction, returning an indicator that no match was

9   found;

10   responsive to none of the values of transactions in the second input

11   parameter equaling the first input parameter, and the second parameter

12   containing more than one transaction, performing the recursive

13   submethod using a modified first input parameter and a modified second

14   input parameter, the modified second input parameter omitting a selected

15   transaction and the modified first input parameter being obtained by

16   subtracting the value of the selected transaction from the first input

17   parameter.

1   48. (Original) The system of claim 46, wherein the recursive submethod

2   comprises:

3   responsive to one of the values of a transaction in the second input parameter

4   equaling the first input parameter, returning a transaction list including

5   the transaction having the equal value;

6   responsive to none of the values of transactions in the second input

7   parameter equaling the first input parameter, and the second parameter

8   containing only one transaction, returning an indicator that no match was

9   found;

10   responsive to none of the values of transactions in the second input

11   parameter equaling the first input parameter, and the second parameter

12   containing more than one transaction, performing the steps of:

13   a) selecting a transaction in the second input parameter;

14   b) subtracting the value of the selected transaction from the first

15   input parameter to obtain a modified first input parameter;

16   c) generating a modified set of transactions including all

17   transactions in the second input parameter except the selected

18   transaction;

19   d) performing the recursive submethod using a first input

20   parameter including the modified first input parameter and a

21   second input parameter including the modified set of

22   transactions;

23   e) responsive to the recursive submethod returning a transaction

24   list, adding the selected transaction to the returned list to

25   generate a modified transaction list, and returning the modified

26   transaction list;   ·

27   f) responsive to the recursive submethod returning an indicator

28   that no match was found, performing the steps of:

29   responsive to any transactions remaining in the

30   second input parameter, repeating steps a)

31   ·   through f); and

32   responsive to no transactions remaining in the

33   second input parameter, returning an indicator

34   that no match was found.

1   49. (Original) A system for reconciling a first combination of at least two

2   transactions in a first list with a second combination of at least two transactions in a

3   second list, each transaction having a value, the system comprising:

4   a first input device, for obtaining each transaction in the first combination;

5   coupled to the first input device, a combination module, for combining the

6   obtained transactions to generate a first value;

7   ·   a second input device, for obtaining the second list of transactions;

8   coupled to the combination module and the second input devices, a memory

9   for storing the first value and the second list;

10 coupled to the memory, a match determination module for determining

11 whether the first value corresponds to a combination of the values of a

12 subset of transactions in the second list; and

13 coupled to the match determination module, a match indication module for,

14 responsive to the first value corresponding to the combination of values,

15 indicating a match between the first combination and the subset of

16 transactions.

1 50. (Original) A system for matching a first value with a combination of at

2 least two values in a list of values, the system comprising:

3 a first input device, for obtaining the first value;

4 a second input device, for obtaining the second list of values;

5 coupled to the input devices, a memory for storing the first value and the

6 second list;

7 coupled to the memory, a recursive function module, for performing a

8 recursive function, using a first input parameter including the first value

9 and a second input parameter including the second list of values, to

10 determine whether the first value corresponds to a combination of values

11 from the second list; and

12 coupled to the recursive function module, a match indicator for, responsive to

13 the first value corresponding to the combination of values, indicating a

14 match for the first value.

1   51. (Previously presented) The system of claim 50, wherein the recursive

2   function module:

3   responsive to one of the values in the second input parameter equaling the

4   first input parameter, returns a value list including the equal value;

5   responsive to none of the values in the second input parameter equaling the

6   first input parameter, and the second parameter containing only one

7   value, returns an indicator that no match was found;

8   responsive to none of the values in the second input parameter equaling the

9   first input parameter, and the second parameter containing more than one

10   value, performs the recursive submethod using a modified first input

11   parameter and a modified second input parameter, the modified second

12   input parameter omitting a selected value and the modified first input

13   parameter being obtained by subtracting the selected value from the first

14   input parameter.

1   52. (Original) The system of claim 50, wherein the recursive function module:

2   responsive to one of the values in the second input parameter equaling the

3   first input parameter, returns a value list including the equal value;

4   responsive to none of the values in the second input parameter equaling the

5   first input parameter, and the second parameter containing only one

6   value, returns an indicator that no match was found;

7   responsive to none of the values in the second input parameter equaling the

8   first input parameter, and the second parameter containing more than one

9   value, performs the steps of:

10   a) selecting a value in the second input parameter;

11   b) subtracting the selected value from the first input parameter to

12   obtain a modified first input parameter;

13   c) generating a modified value list including all values in the

14   second input parameter except the selected value;

15   d) performing the recursive submethod using a first input

16   parameter including the modified first input parameter and a

17   second input parameter including the modified value list;

18   e) responsive to the recursive submethod returning a value list,

19   adding the selected value to the returned list to generate a

20   modified value list, and returning the modified value list;

21   f) responsive to the recursive submethod returning an indicator

22   that no match was found, performing the steps of:

23   responsive to any values remaining in the second

24   input parameter, repeating steps a) through f);

25   and

26   responsive to no values remaining in the second

27   input parameter, returning an indicator that no

28   match was found.

1   53. (Original) The system of claim 50, wherein each value is associated with a

2   transaction.

1   54. (Original) A system for matching a first combination of at least two

2   values with a second combination of at least two values in a list of values, the system

3   comprising:

4   a first input device, for obtaining each value in the first combination;

5   coupled to the first input device, a combination module, for combining the

6   obtained values to generate a first combined value;

7   a second input device, for obtaining the second list of values;

8   coupled to the combination module and the second input devices, a memory

9   for storing the first value and the second list;

10   coupled to the memory, a recursive function module, for performing a

11   recursive function, using a first input parameter including the first

12   combined value and a second input parameter including the second list of

13   values, to determine whether the first combined value corresponds to a

14   second combination of values from the second list; and

15   coupled to the recursive function module, a match indicator for, responsive to

16   the first combined value corresponding to the second combination of

17   values, indicating a match for each value in the first combination.